Outline

**FLOOD & STORM WATER EMERGENCY RESPONSE PLAN**

**Upon Discovery of a Flood/Storm Water Emergency**

- **All Staff**
  - Call **4444** to report the location and severity of the flood.
  - Assist with the area response if required

- **Reception/Kingston Hospitals’ Security Operations Centre**
  - Refer to Page 7

- **Maintenance**
  - Investigate whether the issue is infrastructure based, construction project or weather related.

- **Housekeeping**
  - Report to the area with flood kit supplies and attempt to contain the flood. Check areas beside, above and below for more flooding

- **Security**
  - Attend to assess severity, provide scene control and assist with set up of the Incident Command Centre

- **Infection Prevention & Control**
  - Determine and resolve the infection prevention & control impact and monitor remediation actions

Delegate personnel for response and distribute available supplies (absorbent mats, “socks” mops (from laundry room on level 3), buckets, blankets, etc.) for absorbing the flooding to affected areas

**Upon Hearing Flood Response Required Announced Overhead**

- **All Staff**
  - **Do not** call Reception unless it is urgent
  - Assist with the area response if required
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1.0 General Overview

1.1 Plan to Be Used In Case of a Flood
This plan will be utilized if there is a flooded area within the Home. A flood by definition is: a very large amount of water (or contaminated water/sewage) that has overflowed from a source such as a river, roof or a broken pipe onto a previously dry area. Many resident home services may be impacted. As a result, this plan is in place to effectively and efficiently manage the effects of a flood in the Home.

1.2 Authority to Declare a Flood
Anyone that is aware of a flooded area within the building that has the potential for considerable damage (e.g. electronic or sensitive equipment, resident records, potential for mould growth or structural damage) is authorized to activate the Flood & Storm Water Emergency Response plan. Facility based flooding will occur immediately related to burst pipes, infrastructure failure or construction projects. Weather related floods develop slowly during an extended period of rain or in a warming trend following a heavy snow. Catastrophic floods are associated with burst dams, hurricanes, tsunamis and earthquakes.

1.3 What Flooding Can Do
Flooding can cause site erosion, structural and nonstructural building damage, the destruction or impairment of utilities and mechanical equipment, damage to or loss of contents, health threats from contaminated floodwater, electrical shock and temporary or permanent closure. In addition, off-site flooding can block access routes to and from the site.

Site damage - Resident home grounds may be subject to erosion, with the possible loss of soil and damage to paved areas, including access roads. Large amounts of debris and sediment can accumulate on the site, especially against fences.

Structural damage – Foundations can be eroded, destabilizing or collapsing walls and heaving floors. Roofs are exposed to all elements which can lead to wear and damages. Roof damage is common during the winter months because of the massive amount of weight added by annual snowfall and ice accumulation.

Infrastructure damage – the source of the flood may be from damaged, aged or malfunctioning existing infrastructure (pipes, sprinklers, heating and cooling systems) causing a partial or complete loss of functionality.

Saturation damage – Saturated walls and floors can lead to plaster, drywall, insulation, and tile damage, mould and moisture problems, wood decay, and metal corrosion.

Utility system damage – Electrical wiring and equipment can be shorted and their metal components corrode. Ductwork can be fouled and expensive heating
and cooling equipment ruined. Storage tanks can be displaced and leak, polluting the areas around them. Sewers can back up and contaminate the water supply and building components.

**Contents damage** – Resident home furniture and property, diagnostic equipment, computers, files, books, lab materials and equipment, food services goods and equipment can be damaged or contaminated.

**Health threats** – Mould growth and contaminants in flooded resident home areas can pose significant health threats to residents and staff.

**Resident home closure** – Flooded areas of the resident home must be closed during cleanup and repair. The length of closure and the ability of the affected resident home area to return to normal business is dependent on the severity of the damage and lingering health hazards. It may also depend on how quickly disaster assistance is made available for cleaning and repair.

1.4 **Preventing or Mitigating Flood Damage**
Reducing or eliminating damage caused by potential flooding is difficult to predict in the Home. The goals of the Home when faced with flooding are to ensure that:

1. operations can continue without interruption, and;
2. the Home suffers the least possible amount of physical damage, and;
3. the infection prevention and control impact is resolved

Some practical measures may be undertaken:

- Provide off-site computer backup storage for electronic resident home records
- When replacing mechanical and electrical equipment, devise ways of elevating or flood-proofing
- Consider relocating records and information technology to a higher level
- Add, clean or repair check valves in sewer lines to prevent sewage from backing up into the resident home
- Have sump pumps available
- Consult with engineers or planning experts before attempting structural upgrades or construction that may affect the integrity of the infrastructure
- Determine which staff, materials, procedures and equipment are absolutely necessary to protect the Home and keep it operating

1.5 **Recovering From a Flood**
In the event of a large-scale flood, precautionary steps may need to occur before transitioning back to 100% normal home operations. Do not enter an area if:
• Floodwater remains in or around the building (it may be electrically charged or contaminated)
• The building appears to be damaged (masonry cracks, wall or roof sagging, or other structural distress)
• You smell gas or hear a hissing or blowing sound
• There are downed electrical wires in the vicinity or any sign of electrical damage (office equipment damp or wet)

1.6 Weather monitoring
Monitoring of weather alerts will be conducted by the Mobile Patrol Supervisor. Any notifications of a storm or rainfall warning will result in increased patrols of areas prone to flooding.

1.7 Areas Prone to Flooding
Below-grade areas of the building are by nature more prone to flooding due to storms or external water infiltration.

1.8 Notification
All areas affected by flooding will be notified by overhead announcement. Services dependent on these affected areas will be notified by email or phone, if applicable.

1.9 Incident Command Centre
In the event of a flood the Protection Services department will immediately establish an Incident Command Centre and notify reception of the location. The Home Administrator/Delegate will assume command and coordinate the response activities.

1.10 Definitions
Flood
This is a very large amount of water that has overflowed from a source such as a river or a broken pipe onto a previously dry area. An accumulation of fluid that:
• Wets fixed porous materials such as drywall, carpeting, ceiling tiles, wooden or fabric furniture, etc. and/or
• Covers a water-impervious area that will require more than 14 minutes to remove the water

Remediation
Refers to the general clean up, repair, or replacement of building components after water intrusion

Water Intrusion
This is the entry of environmental (rain), potable (broken water pipe), damaged infrastructure systems (HVAC or sprinkler) or sewage (pipe break or backup) into a building’s interior spaces, requiring actions beyond simple removal.

1 “Incident Command Centre” is a centrally located space available to coordinate and manage resources.
1.11 **Flood supplies**
There are absorbent mats and “socks” in the laundry room on level 3.
2.0 Response & Recovery – All Staff

Response

2.1 Upon Discovery of a Flooded Area
All Staff
☐ Call Reception at 4444 to report the flood if there is potential for considerable damage (e.g. electronic or sensitive equipment, resident records, potential for mould growth or structural damage)
☐ Notify staff in the immediate area to activate the Flood & Storm Water Emergency Response plan
☐ Look for any potential flood-related hazards in the affected area to ensure the integrity and safety of Home property
☐ Take necessary steps/precautions to mitigate water damage to personal and Home property in the affected area

2.2 Upon Receiving Notification That There is a Need to Activate the Flood & Storm Water Emergency Response Plan

All Staff
Do Not Call Reception Unless It Is Urgent
☐ Return to your area of work to assist with the area response, if required
☐ The water from all floods should be considered contaminated until proven otherwise
  ☐ Reference Code Brown – Biological Spill for more information on dealing with contaminated water
☐ Consider which staff, materials, procedures and equipment in your area are absolutely necessary to protect and keep functioning
☐ Use outlets in areas that are NOT affected by the flooding or have Ground Fault Interrupt (GFI) protection
☐ Isolate and refrain from entering any areas affected by the flood
☐ Lower all non-ambulatory resident electric beds to the lowest level on units where flooding has occurred. Beds that are in direct contact with water should be unplugged; if safe to do so, and staff should not use functions that require electricity
☐ Report to your immediate supervisor any critical functions affected by the flood, so they can notify the Incident Command Centre
☐ Do not use elevators in the vicinity of the flood
☐ A multidisciplinary team (Infection Prevention & Control, Maintenance, Housekeeping, Protection Services, Occupational Health, Safety and Wellness and
staff from affected area) need to conduct an inventory of all water-damaged areas, building materials and furnishings.

☐ Assume areas below and adjacent to the flooding have been affected. Investigate and confirm
  ☐ Check rooms where water may have seeped in under the door
  ☐ If drywall, carpet or other materials have been soaked the area must be dried within 24 hours to avoid mould growth.

☐ Any flooding in a food preparation area requires the input of Public Health
☐ Await further instruction from the Incident Command Centre
☐ Be prepared for partial or full evacuation of affected areas
☐ Refer any media inquiries to the Communications office

**Recovery**

2.3 **Upon Notification That the Crisis Has Concluded**

☐ Notify appropriate department if hidden water damage is found
☐ Refer any media inquiries to the Communications office
☐ Resume normal duties
3.0 Response & Recovery – Reception

(After normal Reception hours the 4444 number is answered by the Kingston Hospitals’ Security Operations Centre Operator and will perform all Reception job actions listed below)

Response

Caller information:

Name & Title: 

Location of flood: 

Type of flood: 

After Being Contacted by the Incident Command Centre

Location of the Incident Command Centre: 

Contact Number for Incident Command Centre: 

3.1 Upon Receiving Notification that there is a Need to Activate the Flood & Storm Water Emergency Response Plan

☐ Notify:
  ☐ Kingston Hospitals’ Security Operations Centre at 3242 from Reception Console or 613-548-2484 from an external line
  ☐ Facilities Manager/delegate, if not already aware
  ☐ Director of Housekeeping/delegate
  ☐ Infection Prevention & Control Practitioner (after hours notify on call person)
  ☐ Administrator On-Call (after hours only)
  ☐ Director of Information Services/delegate

☐ Announce overhead three times “FLOOD RESPONSE REQUIRED – Location”

☐ Refer any media inquiries to Communications office

☐ Look for any potential flood-related hazards in the affected area to ensure the integrity and safety of Home property
☐ Take necessary steps/precautions to mitigate water damage to personal and Home property in the affected area

**Recovery**

3.2 **Upon Notification That the Crisis Has Concluded**

☐ Once notification is given by the Incident Commander, announce over the public address system three times, “**FLOOD, location, ALL CLEAR**”

☐ Participate in debriefing session, if requested
4.0 Response & Recovery – Maintenance

Response

4.1 Upon Receiving Notification That There is a Need to Activate the Flood & Storm Water Emergency Response Plan

Facilities Manager/Delegate

☐ Investigate whether the issue is infrastructure based, construction project or weather related

☐ Determine the cause and magnitude of the flood, and appropriate containment and clean up response required

☐ Notify Planning Office and/or contractor construction company if warranted

☐ Consider the impact to the Home, if the source of the flood is from existing infrastructure (pipes, sprinklers, heating and cooling systems) causing a partial or complete loss of functionality

☐ Direct Maintenance staff to repair, contain and assist with clean-up of flood water utilizing recommendations from departmental protocols. Liaise with Infection Prevention & Control and other impacted departments for response

☐ If water is from the sanitary sewer system, notify Public Utilities Kingston. Notify Occupational Health, Safety & Wellness /Infection Prevention & Control. Ensure PPE is used by responding staff

☐ Reference Code Brown – Biological Spill for more information on dealing with contaminated water

☐ Notify Infection Prevention & Control of any disruption to water supply to resident care areas and allow sufficient time for the implementation of alternative arrangements if disruption is warranted for repairs (Refer to Appendix B)

☐ Liaise with and provide status updates to the Incident Commander on the response to the incident

☐ If the water damage cannot be repaired or was not dried out within 48 hours, refer to Administrative Manual – Environmental Management Policy #ADM-EM-34, Mould Detection and Remediation Remediation policy

☐ Assume role of Operations Officer in the Incident Command Centre – refer to page 16

Maintenance Staff

☐ Respond to affected areas based on priority need as designated by Facilities Manager/Delegate
☐ Respond to affected area with the available supplies (mops, buckets, etc.) for absorbing the flooding (absorbent mats, “socks”, and mops from laundry room on level 3)
☐ Put on flood personal protective equipment (overalls/gown, gloves, mask with visor, boots, etc.)
☐ Assist with containing the spread of the flood water using supplies
☐ Look for any potential flood-related hazards in the affected area to ensure the integrity and safety of Home property
☐ Take necessary steps/precautions to mitigate water damage to personal and Home property in the affected area
☐ Perform any plumbing/maintenance repairs required in response to the incident
☐ Open any concealed spaces that have been wet (drywall, ceiling space) to facilitate drying, in consultation with Infection Prevention & Control.
☐ Perform response and recovery functions as authorized by the Facilities Manager/Delegate (Refer to Appendix A)

Recovery

4.2 Upon Notification That the Crisis Has Concluded
Facilities Manager/Delegate
☐ Prepare for a debriefing with Facilities staff

Maintenance Staff
☐ Remove flood personal protective equipment, decontaminating as required
☐ Follow up with Occupational Health, Safety and Wellness, if required
☐ Participate in a debriefing session
☐ Resume normal duties
5.0 Response & Recovery – Protection Services

Response

5.1 If aware of a weather-related flood watch/heavy rain forecast
Protection Services On-Call Manager
☐ Request the Security Officers to increase patrols in flooding prone areas (levels 0 and 1). Exterior checks should be completed as well

5.2 Upon Receiving Notification That There is a Need to Activate the Flood & Storm Water Emergency Response Plan
Kingston Hospitals’ Security Operations Centre
If not already aware, notify:
☐ Director of Protection Services/Delegate
☐ Mobile Patrol Supervisor
☐ Monitor weather via internet and report any updates to the Incident Command Centre regarding the flood if the cause was weather related
☐ Communicate any flood watch information from weather updates to other facilities’ Administrators/Delegates if instructed by the Incident Commander
☐ Providence Care Hospital: 613-544-4900
☐ Kingston General Hospital: 613-548-3232
☐ Hotel Dieu Hospital: 613-544-3310

☐ If authorized by the Incident Commander, activate the Emergency Notification System (Call-Em-All)
☐ Refer to the Call-Em-All instruction book
☐ Record and send the following message to Primary, Secondary and Primary and Secondary Alternate contacts for Providence Manor:
☐ Use the following statement for the Call-Em-All notification:
   Attention please, this is a message from Providence Care Protection Services. There has been a major flood at, Providence Manor. You are requested to return to the Home to assess the impact of the flood on your department.

Director of Protection Services/Delegate
☐ Determine the cause and magnitude of the flood, and coordinate the appropriate response
☐ Ensure Managers of Emergency Management and Security are contacted, if not already aware

2 “Delegate” is the next level of appointed authority. In this case the Protection Services On-call Manager
☐ Respond to Providence Manor to provide assistance, as necessary

**Representative, Protection Services**

☐ Coordinate the Security response to the flood in collaboration with the Incident Commander

☐ Plan and implement traffic restrictions to/through the site and provide direction for alternate routes

☐ Assume role of Logistics Officer in the Incident Command Centre – **refer to page 12**

**Mobile Patrol Supervisor**

☐ If required, collect extra radios for use by the site for the duration of the flood/storm water emergency response

☐ Report to the area to assess level of severity, isolate the area and provide scene control

☐ Look for any potential flood-related hazards in the affected area to ensure the integrity and safety of Home property

☐ Take necessary steps/precautions to mitigate water damage to personal and Home property in the affected area

☐ Assist with the set-up of the Incident Command Centre, if required

☐ Provide Incident Commander with a detailed preliminary report of the incident

☐ Source signage and barriers to isolate affected areas including elevators

☐ Assist with re-routing of traffic flow (staff, residents, visitors, etc.) in affected areas

☐ Provide assistance, as required, for response and recovery efforts

☐ Oversee Security Officers’ response, if applicable

**Security Officer, if applicable**

☐ Provide security functions as directed by the Mobile Patrol Supervisor for response and recovery efforts

**Recovery**

5.3 ** Upon Notification That the Crisis Has Concluded**

**Kingston Hospitals’ Security Operations Centre**

If not already aware, notify:

☐ Director of Protection Services/Delegate

☐ Mobile Patrol Supervisor

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3 Representative includes but is not limited to the following; Director of Protection Services; Manager of Emergency Management, Parking & Security Operations Center; Manager of Security & Life Safety; Emergency Management Coordinator; Corporate Security Supervisor; Mobile Patrol Supervisor.
Mobile Patrol Supervisor
☐ Collect all extra radios used during the incident
☐ Ensure that all documentation is collected for debrief preparation
☐ Dismantle the Incident Command Centre if activated and update supplies as needed
☐ Ensure that a comprehensive security report is filed immediately
☐ Participate in a debriefing session

Security Officer, if applicable
☐ Resume normal duties
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6.0 Incident Command Centre

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<th>Incident Commander</th>
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<td>(Administrator/Delegate)</td>
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<th>Recording Scribe</th>
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<td>(Administrative Assistant/Delegate)</td>
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<th>Advisory Group</th>
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<tr>
<td>(Communications, Risk Management, Infection Prevention Control, Occupational Health, Safety and Wellness)</td>
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<tr>
<th>Planning Officer</th>
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<td>(Director of Care/Delegate)</td>
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<th>Operations Officer</th>
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<td>(Facilities Manager/Delegate)</td>
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<tr>
<th>Logistics Officer</th>
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<tr>
<td>(Representative of Protection Services*)</td>
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*Representative includes but is not limited to the following; Director of Protection Services; Manager of Emergency Management, Parking & Security Operations Center; Manager of Security & Life Safety; Emergency Management Coordinator; Corporate Security Supervisor; Mobile Patrol Supervisor.

Response

6.1 Upon Receiving Notification That There is a Need to Activate the Flood & Storm Water Emergency Response Plan

Incident Commander - Administrator/Delegate
- Establish the Incident Command Centre
- Notify Reception of the location and contact information for Incident Command
- Appoint the following positions, only if the regular assigned persons are not available
  - Operations
  - Planning
  - Logistics
☐ Recording Secretary

☐ Notify:
  ☐ Infection Prevention & Control of the incident
  ☐ Communications office
    ☐ Provide update to the Communications office, and if required
determine what internal or external messaging needs to be provided
  ☐ Occupational Health, Safety and Wellness

☐ Assess adjacent to (beside, above and below) the flooding for migrating water or
water damage as a result of the flood, including building materials (drywall, flooring,
etc.) and equipment/supplies/furniture

☐ Ensure that potentially affected areas containing valuable assets are checked
thoroughly (patient records, expensive clinical equipment and supplies,
information technology infrastructure or equipment, etc.) for additional
flooding

☐ Notify Risk Management
  ☐ If the incident is expected to cost more than $5000 for clean-up and repair:
    ☐ Ensure a SafetE-Net Report is submitted online
    ☐ Ensure required information for insurance purposes is gathered

☐ If the cause of the flood is weather related, consider having Kingston Hospitals’
Security Operations Centre communicate flood watch information to Security at
Providence Care Hospital, Hotel Dieu Hospital and Kingston General Hospital sites
and continue to monitor weather information

☐ Regularly assess risk (structural, utility, saturation, contents, health threats) and
authorize flood response and recovery efforts

☐ Presume that areas adjacent to (beside, above and below) the flooding are also
affected until they are investigated and ruled out

☐ Ensure that potentially affected areas containing valuable assets are checked
thoroughly (records, valuable resident-care equipment and supplies,
information technology infrastructure or equipment, etc.) for additional
flooding

☐ Provide solutions for potential additional hazards and complications impacting the
Home if the source of the flood was infrastructure related (sprinkler system, sewage
pipe, water heated radiators)

☐ Review potential electrical issues (outlets, smoke alarms, equipment) and authorize
implementation of by-pass procedures, as required

☐ Liaise with Infection Prevention & Control regarding impact from water damage
Consider the impact to resident care and liaise with appropriate leadership staff based on affected area
Liaise with Communications to provide communication updates regarding incident internally and externally, if required
Establish business cycle to receive status reports from Operations, Logistics and Planning Officers
Prepare to provide a situational report to the President & CEO/Delegate
Liaise with the President & CEO/Delegate and assess the need to activate the Corporate Emergency Operations Center (EOC) and call back of Program Directors
Be prepared to transfer command to a higher authority (e.g. President & CEO/Delegate)
If required, notify the Kingston Hospitals’ Security Operations Centre (613-548-2484) to call Providence Care primary fan out contact members and have them report to PM Incident Command or the Corporate EOC at PCH
Authorize staff fan-out lists, as required, in consultation with Director of Care/Management Team
Ensure the EOC is appropriately informed of any identified risk issues, if active

Planning Officer – Director of Care/Delegate
Provide progress updates to the Incident Commander
Provide assistance to Maintenance staff by allocating and deploying staff as necessary to manage the flood and to assist with the resumption of normal functions
If applicable, liaise with Operations Officer/Planning Office to call in a private remediation company to manage the flood and assist in the return of normal functions to the Home
Consider the implication of the flood on resident care
Ensure continuation of resident care in the remainder of the Home

Operations Officer – Facilities Manager/Delegate
Take necessary steps to ensure the flood is not increasing
Consider re-routing of flood water into existing drains, toilet drainage holes etc.
Regularly assess risk (structural, utility, saturation, contents, health threats such as cross contamination of potable water supply) and make recommendations on flood response and recovery efforts
Review potential electrical issues (outlets, smoke alarms, equipment) and determine if by-pass procedures should be implemented
Provide assistance to Housekeeping by allocating and deploying staff as necessary to manage the flood and to assist with the resumption of normal functions
If applicable, liaise with Planning Office and/or private remediation company to manage the flood and assist in the return of normal functions to the Home

**Logistics Officer – Representative of Protection Services**
- Look for any potential flood-related hazards in the affected area to ensure the integrity and safety of Home property
- Take necessary steps/precautions to mitigate water damage to personal and Home property in the affected area
- Ensure Security requirements to manage the flood incident are provided (i.e. barriers)
- Ensure the extent of the flood is documented by video recorder or digital camera
- Consider whether a search of the Home should be conducted to account for areas affected by the flood
  - Gather and prepare search team kits, if required
  - Contact available staff to prepare to assist in the search of the Home, if required
  - Be prepared to coordinate search teams, and security staff actions, if required
- Provide radio communication as necessary to Incident Command Centre
- Prepare for the termination of the emergency and any debriefing requirements
- Ensure the continuation of Security functions in the remainder of the Home

**Advisory Group**
- Provide information and resources to the Incident Commander as required

**Recording Secretary – Administrative Assistant**
- Document response actions and communication within the Incident Command Centre

**Recovery**

6.2 **Upon Notification That the Crisis Has Concluded**

- Incident Commander
  - Upon notification that the flood incident has been resolved authorize Reception to announce an “All Clear”
  - Ensure appropriate recovery actions are taken by staff (area cleared, damaged areas repaired)
  - Prepare for a debriefing with Incident Command Centre and Emergency Operations Centre, if activated
  - Instruct staff to resume normal duties
  - Review legislative requirements for reporting of incident
Planning Officer
☐ Prepare for a debriefing with the Incident Command Centre

Operations Officer
☐ Debrief staff on lessons learned and procedural/equipment changes needed
☐ Instruct staff to resume normal duties

Logistics Officer
☐ Ensure replacement of flooding response and search kit supplies, if utilized
☐ Compile any reports for debriefing

Recording Secretary
☐ Document recovery actions and communication within the Incident Command Centre
7.0 Response & Recovery – Housekeeping

Response

7.1 Upon Receiving Notification That There is a Need to Activate the Flood & Storm Water Emergency Response Plan

Facilities Manager/Delegate

☐ Upon notification that an area is flooded, direct Housekeeping staff to ensure measures are taken to contain the flood.

☐ Assess adjacent areas (beside, above and below) the flooding for migrating water or water damage as a result of the flood, including building materials (drywall, flooring, etc) and equipment/supplies/furniture.

☐ Ensure that potentially affected areas containing valuable assets are checked thoroughly (patient records, expensive clinical equipment and supplies, information technology infrastructure or equipment, etc.) for additional flooding.

☐ Direct Housekeeping staff to assist as required with water removal, drying processes, or surface cleaning and disinfection following departmental procedures.

☐ Liaise with and provide status updates to the Incident Commander on the response to the incident.

☐ Assume role of Operations Officer in the Incident Command Centre – refer to page 15.

Housekeeping Staff

☐ Respond to affected areas based on priority need as designated by Facilities Manager/Delegate.

☐ Respond to affected area with the available supplies (mops, buckets, blankets, etc.) for absorbing the flooding.

☐ Don flood personal protective equipment.

☐ Assist with containing the spread of the flood water using supplies.

☐ Look for any potential flood-related hazards in the affected area to ensure the integrity and safety of Home property.

☐ Take necessary steps/precautions to mitigate water damage to personal and Home property in the affected area.

☐ Assist with clean-up of the flood water and affected areas surrounding the incident.

Recovery

7.2 Upon Notification That the Crisis Has Concluded

Facilities Manager/Delegate
□ Ensure all flooded and affected surrounding areas have been cleaned
□ Discuss with Clinical Staff/ Facilities Operations, Infection Prevention and Control, and Maintenance when fans/dehumidifiers should be shut off based on the construction of the area affected by flooding
□ Doff flood personal protective equipment, decontaminating as required.
□ Follow up with Occupational Health, Safety and Wellness, if required
□ Liaise with Facility Operations & Maintenance to ensure all damaged structures and wet materials have been replaced (e.g. linens, curtains, carpets, drywall, ceiling tiles, etc.)
□ Attend debrief session
8.0 Response & Recovery – Infection Prevention & Control

Response

8.1 Upon Receiving Notification That There is a Need to Activate the Flood & Storm Water Emergency Response Plan

Infection Prevention & Control Practitioner/Delegate

☐ Report immediately to the area that is flooded to assess and resolve the Infection Prevention & Control impact

☐ Determine the risk of contamination in the flooded area

☐ If water is contaminated with fecal material, Infection Prevention & Control will advise on modifications to personal protective equipment

☐ Reference Code Brown – Biological Spill for more information on dealing with contaminated water

☐ Provide input regarding clean up and remediation procedures

☐ Recommend barriers necessary, negative or positive pressure air movement, traffic routes, etc.

☐ Monitor remediation actions, especially if the remediation utilizes barriers, negative pressure, etc.

☐ Halt any work that is proceeding with inadequate barriers; walk off mats or other breaches in Environmental Management Policy Manual, sections ADM-EM-34 (Mould Detection and Remediation) and the Infection Prevention and Control Policy Manual, ADM-IC-20 (Construction, Renovation And Maintenance)

☐ Ensure plans that include measures needed to protect residents, visitors and staff from drying activities are reviewed before the start of the project

☐ Assist in the planning for potential disruption of water (Refer to Appendix B)

☐ Coordinate with Occupational Health, Safety & Wellness when construction/renovation or remediation may have an impact on staff working in the area

Recovery

8.2 Upon Notification That the Crisis Has Concluded

Infection Prevention & Control Practitioner

☐ Ensure remediation actions are complete, as outlined in Infection Prevention & Control Policy Manual, ADM-EM-34 (Mould Detection and Remediation) and ADM-IC-20 (Construction, Renovation And Maintenance)

☐ Attend debrief session
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9.0 Response & Recovery – Information Services

Response

9.1 Upon Receiving Notification That There is a Need to Activate the Flood & Storm Water Emergency Response Plan
Director & Chief Information Officer, Information Management & Technology /Delegate
☐ Upon notification that an area is flooded, ensure measures are taken to prevent damage to Information Services equipment
☐ Ensure back up procedures functioning to prevent loss of information technology services
☐ Look for any potential flood-related hazards in the affected area to ensure the integrity and safety of Home property
☐ Take necessary steps/precautions to mitigate water damage to personal and Home property in the affected area
☐ Take necessary steps to rectify any loss of information technology services

Recovery

9.2 Upon Notification That the Crisis Has Concluded
Director & Chief Information Officer, Information Management & Technology /Delegate
☐ Ensure all areas have information technology services
☐ Attend debrief session
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10.0 Appendix A – Remediation Actions

NOTE: all applicable actions from Section sections ADM-EM-34 (Mould Detection and Remediation) and ADM-IC-20 (Construction, Renovation and Maintenance) need to be followed. Population Risk Group, Construction Activity Type and Preventive Measure Analysis need to be established for each area under remediation.

<table>
<thead>
<tr>
<th>WET ITEM</th>
<th>ACTIONS</th>
<th>MRP</th>
</tr>
</thead>
</table>
| Carpet (sewage contamination) | Remove excess water  
Discard carpet                                                   | Housekeeping         |
| Carpet (Wet Less than 48 hours)    | Extract water  
Shampoo or steam clean carpet (all furniture, cabinets, etc., need to be removed from area) | Housekeeping         |
| Carpet (Wet More than 48 hours)    | Extract water  
Discard carpet                                                   | Housekeeping         |
| Ceiling Tile            | Remove and discard tile(s)                                              | Maintenance          |
| Drywall                 | Remove drywall and insulation (if present) to 30 cm (12 inches) above wet mark, and discard.  
▪ If more than 48 hours, and more than 1 square meter is involved, a mould remediation specialist may need to be consulted. | Maintenance          |
| Electrical              | Must be inspected by an electrician and/or electrical safety authority.  
▪ Electric circuit breakers, GFI’s (Ground Fault Interrupters) and fuses that have been wet need replacing.  
▪ Switches and outlets can be cleaned and reused (if in doubt, throw them out).  
▪ Electric motors, light fixtures, etc., need to be opened, cleaned and air dried by a qualified person | Maintenance          |
| Files/Papers (Essential) | Dry, photocopy, discard if possible                                      | Medical Records      |
| Files/Papers (Non-Essential) | Discard                                                               | Housekeeping         |
| Laminate Surfaces (Good Condition) | Dry, and clean with disinfectant solution                             | Housekeeping         |
| Laminate Surfaces (Poor Condition)  | Discard                                                              | Housekeeping         |
| Upholstered Furniture   |▪ Flood due to drinking (potable) water:  
  o Dry within 24 hours and monitor for mould  
  o >24 hours: dispose  
▪ Flood due to floods, roof leaks, sewage backup or ground water:  
  o Dispose | Housekeeping         |
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### Appendix B – Water Disruption Considerations

<table>
<thead>
<tr>
<th>RISK</th>
<th>INTERVENTIONS</th>
<th>MRP</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lack of potable water for drinking and food preparation</td>
<td>Schedule interruptions for low activity times Observe/provide potable water for consumption (potable water can arranged through Food and Nutrition Services)</td>
<td>Maintenance, Materials Management, Food and Nutrition Services</td>
</tr>
<tr>
<td>Lack of water for handwashing</td>
<td>Use disposable hand cleaning towelettes for hand cleaning: residents and personnel, then use alcohol based hand sanitizer</td>
<td>Nursing, Materials Management</td>
</tr>
<tr>
<td>Lack of water for flushing toilets, resident bathing</td>
<td>Obtain water supply for bathing and cleaning Use waterless bathing system i.e. Bath-in-a-bag (may have to be procured through 3SO). Use bedpan / commode liners to dispose of human waste as an alternate to use of toilets</td>
<td>Maintenance, Materials Management</td>
</tr>
<tr>
<td>Contamination of potable water supply—during disruption</td>
<td>Ensure all air and stagnant water is removed from pipes once flow re-established Ensure proper disinfection of water supply by chlorination</td>
<td>Maintenance, City of Kingston Public Utilities</td>
</tr>
<tr>
<td>Lack of water for using command centres for disinfectants in mop pails for cleaning</td>
<td>Use ready-to-use (RTU) formulation of Accel Intervention disinfectant. For cleaning reusable client equipment use Accel Intervention disposable wipes.</td>
<td>EVS, Facility operations maintenance</td>
</tr>
</tbody>
</table>
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### 12.0 Appendix C - Valve Listing For Isolation

DHW=Domestic Hot Water, DCW=Domestic Cold Water, HHW=Heating Hot Water

<table>
<thead>
<tr>
<th>Valve Number</th>
<th>Area shuts off</th>
<th>Type of Liquid</th>
<th>Close Door Number Location</th>
<th>Area Located</th>
</tr>
</thead>
<tbody>
<tr>
<td>501</td>
<td>Mont hallway to link. Levels 5,4,3</td>
<td>DHW</td>
<td>1-5067</td>
<td>M5</td>
</tr>
<tr>
<td>502</td>
<td>Mont hallway to link. Levels 5,4,3</td>
<td>DCW</td>
<td>1-5067</td>
<td>M5</td>
</tr>
<tr>
<td>503</td>
<td>Mont dining rooms. Levels 5,4,3</td>
<td>DHW</td>
<td>1-5066</td>
<td>M5</td>
</tr>
<tr>
<td>504</td>
<td>Mont dining rooms. Levels 5,4,3</td>
<td>DCW</td>
<td>1-5066</td>
<td>M5</td>
</tr>
<tr>
<td>505</td>
<td>Bay Levels 5,4,3</td>
<td>DHW</td>
<td>1-5047</td>
<td>Bay and Mont</td>
</tr>
<tr>
<td>506</td>
<td>Bay Levels 5,4,3</td>
<td>DCW</td>
<td>1-5047</td>
<td>Bay and Mont</td>
</tr>
<tr>
<td>507</td>
<td>Syd Levels 5,4,3 and Dining rooms</td>
<td>DHW</td>
<td>1-5017</td>
<td>Syd</td>
</tr>
<tr>
<td>508</td>
<td>Syd Levels 5,4,3 and Dining rooms</td>
<td>DCW</td>
<td>1-5000</td>
<td>Syd</td>
</tr>
<tr>
<td>509</td>
<td>Link Levels 5,4,3</td>
<td>DHW</td>
<td>1-5085</td>
<td>Mon</td>
</tr>
<tr>
<td>510</td>
<td>Link Levels 5,4,3</td>
<td>DCW</td>
<td>1-5085</td>
<td>Mon</td>
</tr>
<tr>
<td>511,512,513,514</td>
<td>Main Levels 5,4,3</td>
<td>DHW</td>
<td>Pent House 1</td>
<td>Mon</td>
</tr>
<tr>
<td>515,516</td>
<td>Mont Home Wide</td>
<td>HHW</td>
<td>Pent House 2</td>
<td>Ord</td>
</tr>
<tr>
<td>517</td>
<td>Mont Home Wide</td>
<td>HHW Supply</td>
<td>Pent House 2</td>
<td>Ord</td>
</tr>
<tr>
<td>518,519</td>
<td>Syd Home Wide</td>
<td>HHW</td>
<td>Pent House 3</td>
<td>Syd</td>
</tr>
<tr>
<td>520</td>
<td>Syd Home Wide</td>
<td>HHW Supply</td>
<td>Pent House 3</td>
<td>Syd</td>
</tr>
<tr>
<td>521,522</td>
<td>Levels 0,1,2</td>
<td>DHW and Make up</td>
<td>Mechanical Room 1-011</td>
<td>Mon</td>
</tr>
<tr>
<td>523,524</td>
<td>Home Wide</td>
<td>Chiller Water</td>
<td>Mechanical Room 1-011</td>
<td>Mon</td>
</tr>
<tr>
<td>525</td>
<td>Home Wide</td>
<td>All Water Supply to the Home</td>
<td>Mechanical Room 1-011</td>
<td>Mon</td>
</tr>
</tbody>
</table>
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LEVEL 5 Cold and Hot shut off valves. Marked on T bar 4 locations. All to be turned off in the event of Potable water leak on all RHA.
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Providence Care – Providence Manor  Flood & Storm Water Emergency Response Plan

BAY STREET

ORDANANCE STREET

SYDENHAM STREET

 LEVEL 5

SYDENHAM ELEVATOR

D5017, DHWV507,
DCWV506

D5047, DHWV505
DCWV506

MONTREAL ELEVATORS

D5067, DHWV501,
DCWV502

D5085, DHWV509,
DCWV510

D5000, DCWV508,

D= Door number, DHWV= Domestic Hot Water Valve
DCWV= Domestic Cold Water Valve

Appendix D – Water Shut Off Valve Maps  35
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Appendix D – Water Shut Off Valve Maps
Valve #501

This valve shuts off DHW to Hallway to the Link levels 5, 4, 3. Rotate valve 90 degrees to close water supply to the floors.
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